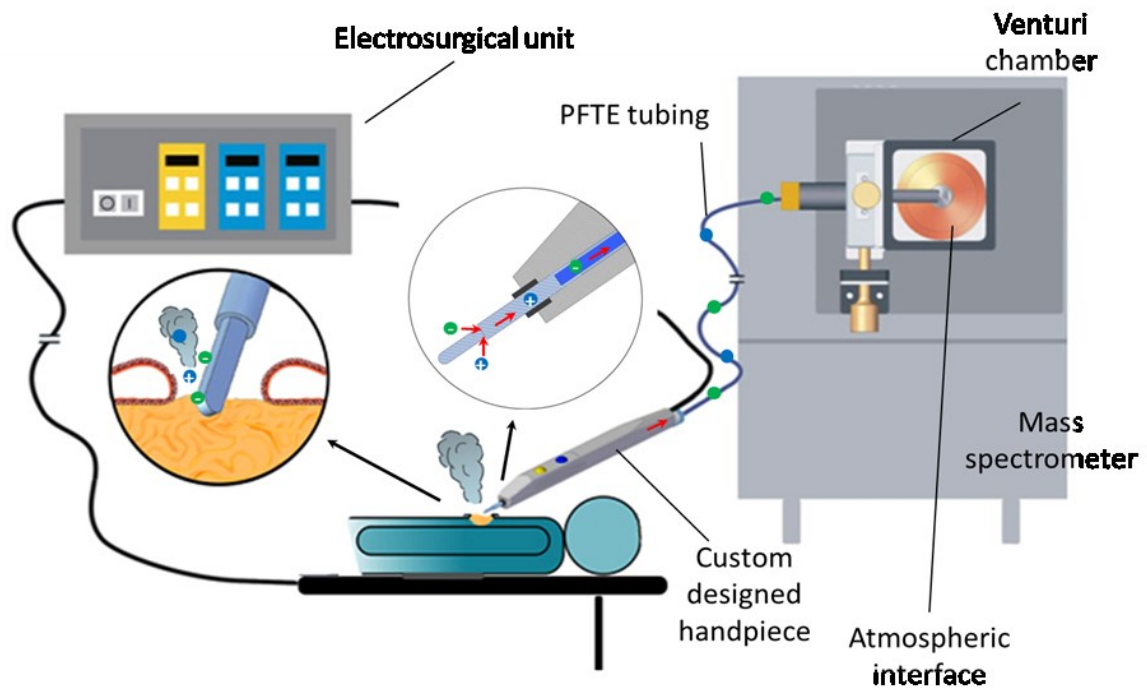
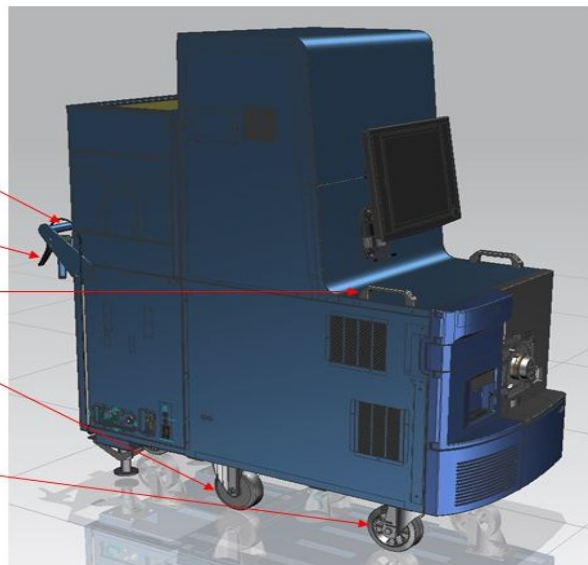




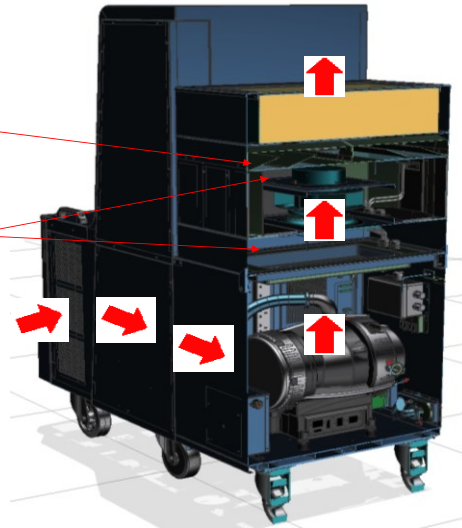
1. Figure Schematic structure of the device

- Bar type / Primary handle.
- Locking hand brake.
- Front / Secondary handles.
- Fixed central braking castors.
- Front and rear swivel castors.



2. Figure Mass Spectrometric pre-prototype device, design of surgical version (Xevo G2S)

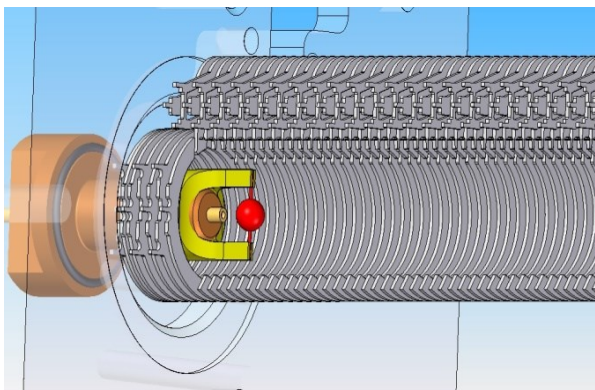
- Instrument air flow same as current Xevo G2-S.
- Baffle to evenly distribute air flow across HEPA filter.
- Pre-filter & HEPA filter region pressure sensors.
- Signal for filter renewal to be displayed on touch screen monitor.



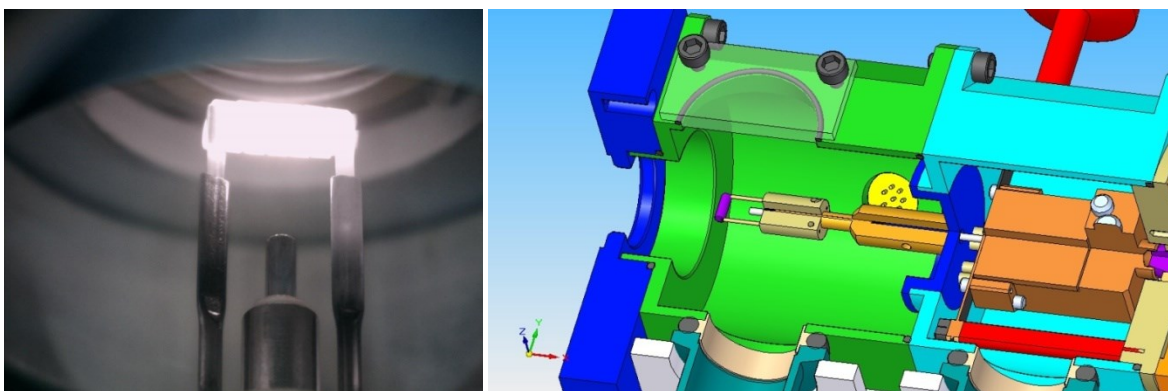
3. Figure Air circulation of Mass Spectrometric pre-prototype device, design of surgical version (Xevo G2S)



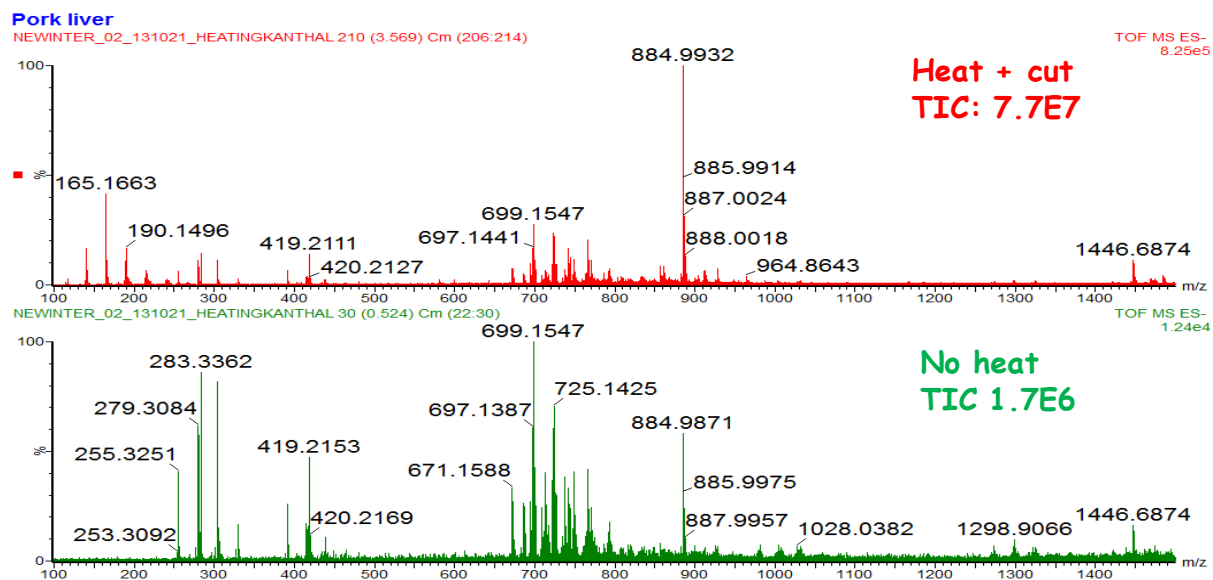
4. Figure Mass Spectrometric pre-prototype device, surgical version. (Xevo G2S)



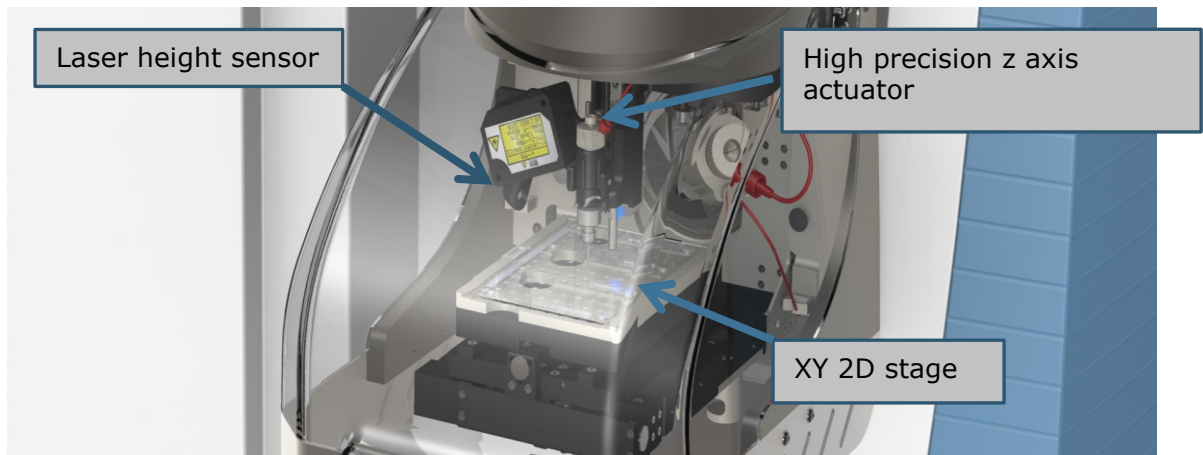
5. Figure collision surface (spherical) within the stepwave ion guide



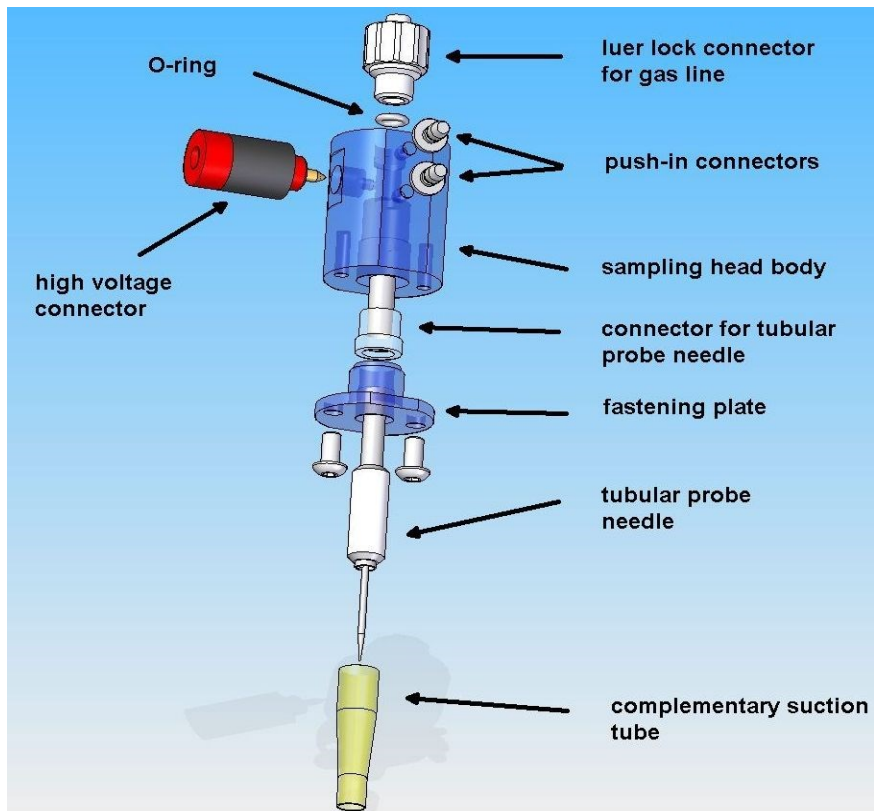
6. Figure Heated collision surface (kanthal coil)



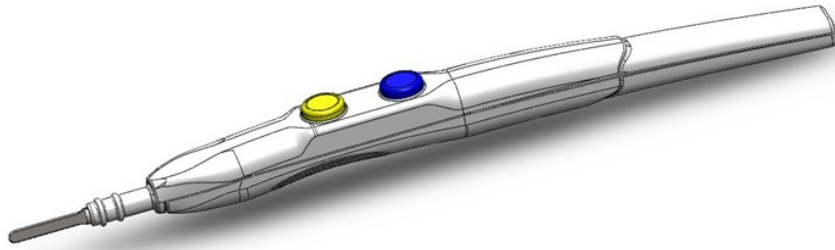
7. Figure The effect of heating on spectral intensity (kanthal coil)



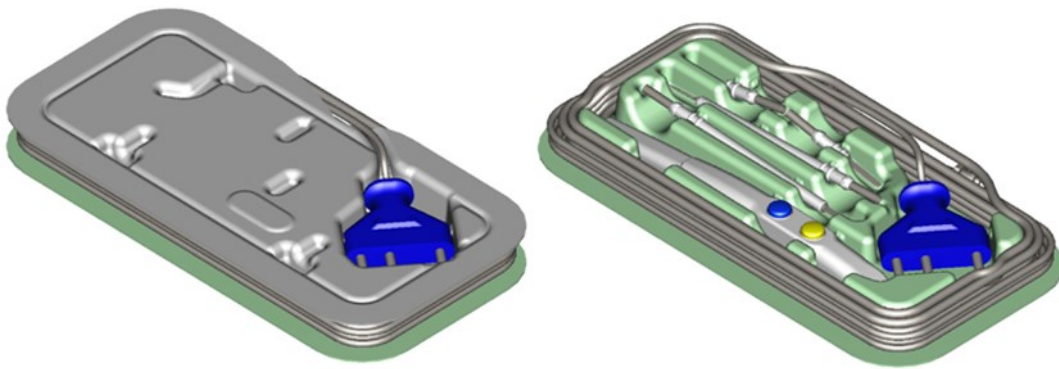
8. Figure The flowprobe platform from Prosolia



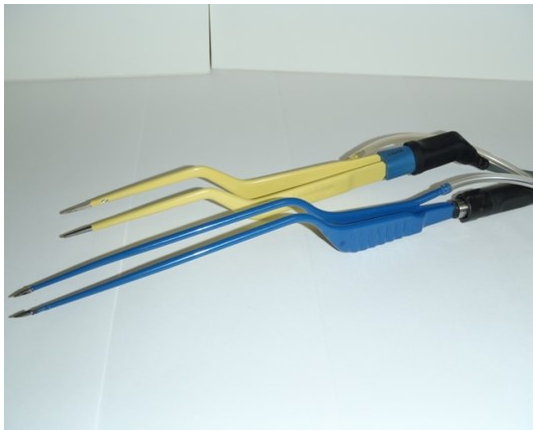
9. Figure Exploded view of the REIMS imaging probe



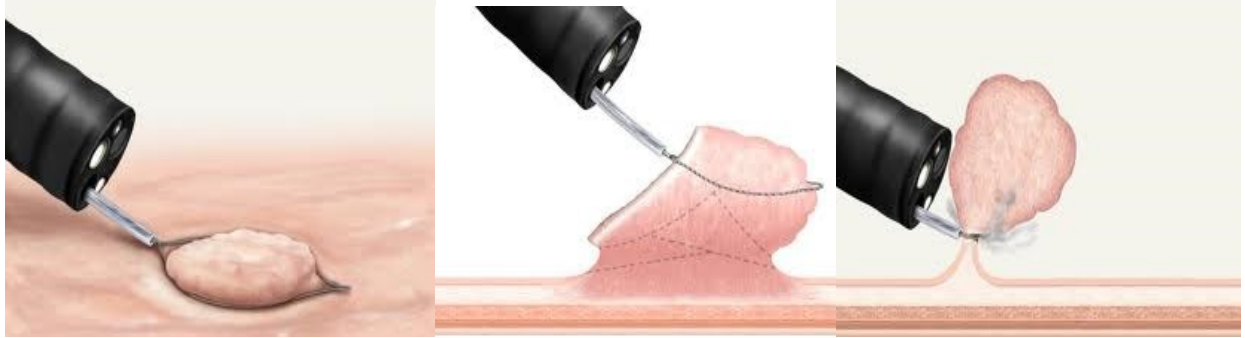
10. Figure 3D model of the monopolar handpiece



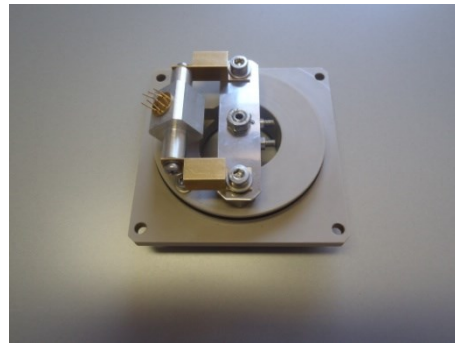
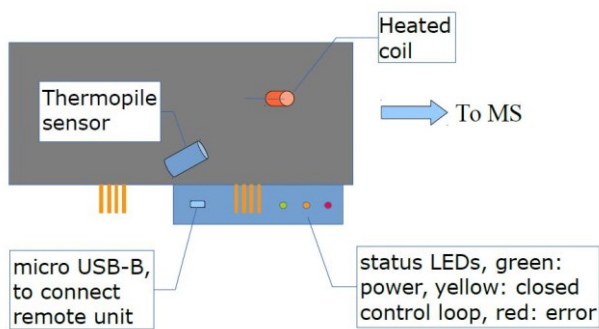
11. Figure Modified tray packaging with lid



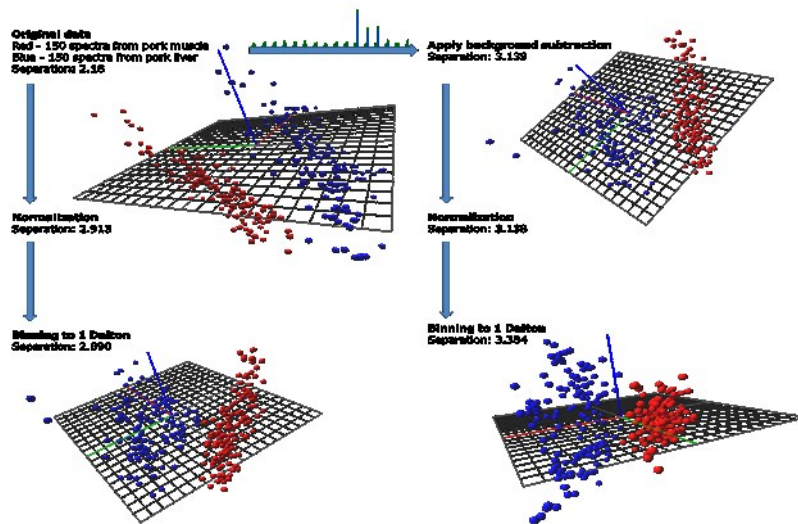
12. Figure Bipolar irrigation forceps (left) and the opening of the irrigation channel (right)



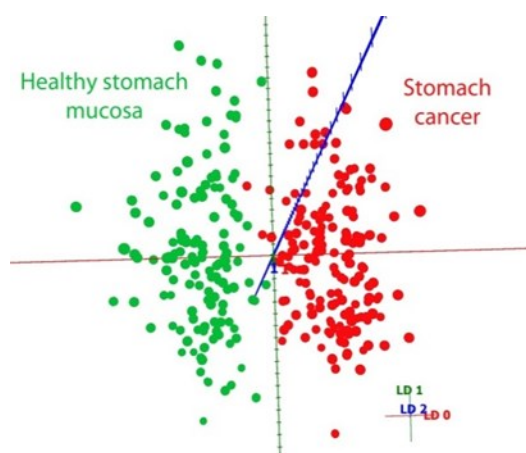
13. Figure Endoscopic snare in action



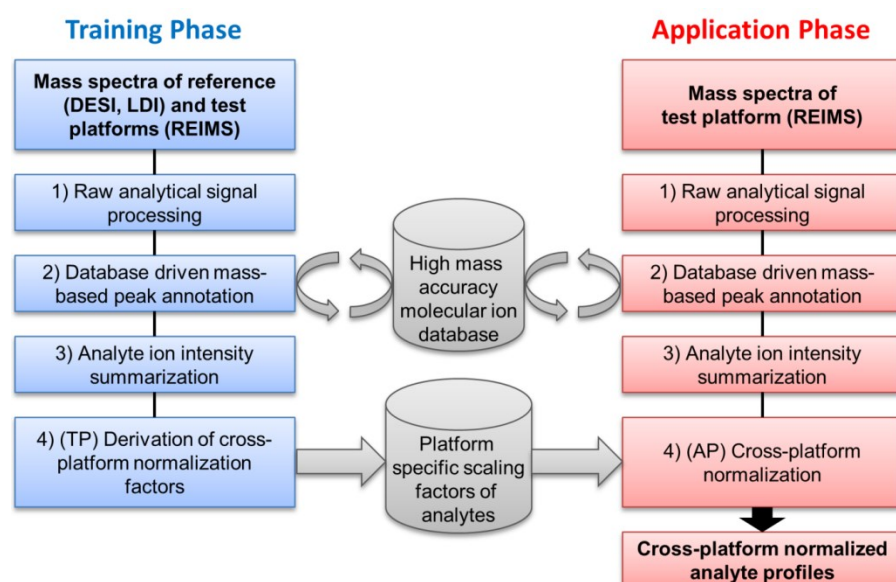
14. Figure Configuration scheme of the closed loop temperature control system and picture of the sensor attached to the isolator plate



15. Figure Improved separation efficiency using ODM platform



16. Figure separation of healthy and cancerous mucosa using multivariate statistical analysis



17. Figure Data fusion method workflow for obtaining cross-platform normalized analyte profiles. Analyte specific normalisation factors obtained in the training phase are applied to convert analyte intensities between platforms in the application phase.